

Title (en)

PROCESS FOR THE PREPARATION OF COMPOUND FERTILIZERS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON DÜNGEMITTELZUSAMMENSETZUNGEN

Title (fr)

PROCEDE DE PREPARATION DE FERTILISANTS DE COMPOSÉS

Publication

EP 1080054 A1 20010307 (EN)

Application

EP 99925048 A 19990514

Priority

- FI 9900418 W 19990514
- FI 981087 A 19980515

Abstract (en)

[origin: WO9959938A1] The invention relates to a novel process for the preparation of fertilizers, a so-called multiple-suspension process, according to which two or more raw-material suspensions of different compositions are prepared in separate reactors or reactor systems coupled in parallel. These raw-material suspensions are fed into a granulator separately or combined together immediately before the granulation, and thus the mutual reactions of the raw-materials fed into the different suspensions, and consequently also the salt composition of the product, will be different from those obtained when the same product is prepared by the normal single-suspension process.

IPC 1-7

C05B 19/00

IPC 8 full level

B01J 2/04 (2006.01); **C05B 11/06** (2006.01); **C05B 19/00** (2006.01); **C05G 5/12** (2020.01)

CPC (source: EP US)

B01J 2/04 (2013.01 - EP US); **C05B 19/00** (2013.01 - EP); **C05G 5/12** (2020.02 - EP US)

Cited by

US11999662B2; WO2022013747A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IT LI NL PT SE

DOCDB simple family (publication)

WO 9959938 A1 19991125; AT E255550 T1 20031215; AU 4147299 A 19991206; CN 1161302 C 20040811; CN 1301242 A 20010627; DE 69913340 D1 20040115; DE 69913340 T2 20041007; DK 1080054 T3 20040405; EE 200000668 A 20020415; EP 1080054 A1 20010307; EP 1080054 B1 20031203; ES 2212562 T3 20040716; FI 105472 B 20000831; FI 981087 A0 19980515; FI 981087 A 19991116; HU P0102114 A2 20011028; HU P0102114 A3 20021128; NO 20005752 D0 20001114; NO 20005752 L 20001114; NO 321215 B1 20060403; PL 188601 B1 20050228; PL 344009 A1 20010924; PT 1080054 E 20040430; RU 2196758 C2 20030120; TR 200003382 T2 20010321; UA 70324 C2 20041015

DOCDB simple family (application)

FI 9900418 W 19990514; AT 99925048 T 19990514; AU 4147299 A 19990514; CN 99806229 A 19990514; DE 69913340 T 19990514; DK 99925048 T 19990514; EE P200000668 A 19990514; EP 99925048 A 19990514; ES 99925048 T 19990514; FI 981087 A 19980515; HU P0102114 A 19990514; NO 20005752 A 20001114; PL 34400999 A 19990514; PT 99925048 T 19990514; RU 2000128710 A 19990514; TR 200003382 T 19990514; UA 2000116345 A 19990514